

In this training module, you learn how to perform pre-installation checks before upgrading from IBM Tivoli[®] Integrated Portal 2.1.0 to 2.2.0.1. You also learn about the different logs that are used to monitor this upgrade procedure.

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Objectives	-
When you complete this module, you can perform these tasks:	
 Ensure pre-installation checks are completed before starting upgrades to Tivoli Integrated Portal 2.2 	
 Explain to others that you need to first upgrade to Tivoli Integrated Portal 2.2.0.1 for any upgrade from Tivoli Integrated Portal 2.1 to Tivoli Integrated Portal 2.2 	
 Explain to others that a feature pack must be installed with a release pack for cases when you upgrade Tivoli Integrated Portal 2.1 to Tivoli Integrated Portal 2.2 	
 Monitor several upgrade logs and tell others their locations and purpose 	
2 Pre-installation checks and log monitoring for the upgrade of Tivoli Integrated Portal version 2.1 to version 2.2 on Windows © 2014 IBM Corporation	on

When you complete this training module, you can ensure that your pre-installation environment supports a successful upgrade of Tivoli Integrated Portal version 2.1 to 2.2. You also see which logs to monitor for verifying successful completion of the upgrade task.

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Assumptions	
 Before you proceed, the module designer assumes that you have these skills and knowledge: Intermediate Tivoli Netcool/OMNIbus V7.3.1 web GUI product knowledge Intermediate WINDOWS OS-related technical knowledge on performing these tasks: How to edit files How to change permissions on files and folders 	
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You should have intermediate knowledge of the IBM Tivoli Netcool/OMNIbus V7.3.1 web GUI and the operating system that it runs on. You should also be able to perform such operating system tasks as editing files and changing read, write, and start permissions for both files and folders.

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Three IBM Tivoli Integrated Portal installation types	
There are three IBM Tivoli Integrated Portal installation scenarios:	
 A fresh installation where no previous Deployment Engine is installed 	
 A fresh installation where there is a previous Deployment Engine and the same Deployment Engine instance can be reused 	
 An upgrade installation of Tivoli Integrated Portal, as covered in this module 	
4 Pre-installation checks and log monitoring for the upgrade of Tivoli Integrated Portal version 2.1 to version 2.2 on Windows © 2014 IBM Co	orporation

There are three types of IBM Tivoli Integrated Portal installations. They are displayed on this slide. For a pristine, clear system, you can perform a fresh installation where there is no Deployment Engine already available in your environment. For this type of installation, look at just the installation logs. Another scenario is where the Deployment Engine is already installed in the environment. In this installation type, you reuse the Deployment Engine. The third scenario is upgrading to a newer revision of IBM Tivoli Integrated Portal; it is this scenario that is used in this module.

Upgrading from Tivoli Integrated Portal 2.1.0 requires first upgrading to Tivoli Integrated Portal 2.2.0.1 before upgrading to the higher levels. For example, if you have an APAR for the IBM Tivoli Netcool/OMNIbus 7.3.1 web GUI being fixed in Tivoli Integrated Portal 2.2.0.7 and you want to upgrade to this level to get the fix, first upgrade to Tivoli Integrated Portal 2.2.0.7.



There must be enough disk space for the upgrade to be successful. Check the amount of space you had at the moment of installation. This slide mentions the advised minimum disk space at the installation and temp directory. User permissions also need to be checked and verified. It is best to ensure that the user ID used to perform the upgrade is the same as the one that was used to perform the initial product or Tivoli Integrated Portal installation.

Pre-check on general environment data: Deployment engine output shows correct Tivoli Integrated Portal level as expected
 The installed product listing from the Deployment Engine listlU command should confirm that the Tivoli Integrated Portal installation is at the level that you are upgrading from
 Collect the output of these commands: C:\Program Files\IBM\Common\acsi\bin\de_version.cmd C:\Program Files\IBM\Common\acsi\bin\listIU.cmd C:\Program Files\IBM\Common\acsi\bin\de_lsrootiu.cmd Example: If you are upgrading from Tiyoli Integrated Portal 2.1.0.1, you can expect to see output like
this example when running the listU.cmd C:\User\ <username>\acsi_\username>\bin>listU U UUID: DDCB934782398B381431666515AC855 Name: DE Extensions Interfaces CLI IV Version: 1.4.0.14 IU UUID: C37L09911C8A1L099E1700061BB67A&A Name: Deployment Engine IU Version: 1.4.0.14 IU RootIU UUID: 95FE79F918DF3BA0067511FD3F7C358E Name: SIU-TIPCore Version: 2.1.0.0 IU UUID: 5FFE79F918DF3BA0067511FD3F7C358E Name: SIU-TIPCore Version: 2.1.0.0 IU UUID: 5FFE79F918DF3BA0067511FD3F7C358E Name: SIU-TIPCore Version: 2.1.0.0 IU UUID: 5FFE79F918DF3BA0067511FD3F7C358E Name: SIU-TIPCore Version: 2.1.0.0 IU RootIU UUID: 2ADC4A33F09F4E5AD27963E50290C3 Name: TIPCore Version: 2.1.0.0 IU RootIU UUID: 2ADC4A33F09F4E85AD27963E50290C3 Name: TIPCore Version: 2.1.0.0 IU RootIU UUID: 2ADC4A33F09F4E85AD27963E850290C3 Name: TIPCore Version: 2.1.0.0</username>
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This slide shows several commands to check the version of Tivoli Integrated Portal. Use these commands as a pre-check to ensure that you have the expected level of Tivoli Integrated Portal. Checking the logs is beneficial if a machine has multiple levels of Tivoli Integrated Portal or if there have been multiple attempts to install Tivoli Integrated Portal. You can use the command **listIU.cmd** as shown in this example. Make sure that all the outputs are collected and monitored for upgrade logging purposes.



Before you start upgrade steps, you must stop any Java processes running that are associated with the Tivoli Integrated Portal. For Windows, you use the **services** utility to verify the path of the IBM Java process that is running Tivoli Integrated Portal. Then, use the Task Manager to stop the Java Tivoli Integrated Portal process. Ensure that you stop the correct Java program.



To upgrade from Tivoli Integrated Portal 2.1 to 2.2, you need to install a feature pack on top of the upgrade pack. You must know the current level of Tivoli Integrated Portal before proceeding with the upgrade. You again use the **listIU** command to determine the current level.

Log in to IPM Fix Control:	Firefox *	+
http://www.ibm.com/support/fixcentral	www-933.ibm.com/supp	ort/fixcentral/options 위 속 · 위 송 · 원 송 · 원 송 · 원 송 · 원 송 · 원 송 · 원 양 · 원 양 · 원 양 · 원 양 · 원 양 · 원 양 · 권 양 · D 양 양 · D 양 양 · D 양 양 · D 양 양 · D 양 양 · D 양 양 · D 양 양 · D 양 양 양 · D 양 양 양 · D 양 양 양 양 양 양 양 양 양 양 양 양 양 양 양 양 양
 Enter Tivoli Integrated Portal at the Product Selector list; then 		es & solutions Services Products Support & downloads My IBM
select the version from the Installed Version list and your	← IBM Support Portal Fix Control Inventory upload	Fix Central
platform from the Platform list.	Supported products	Fix Central provides fixes and updates for your system's software, hardware, and operating system
In this example, you select	Enhancements	For additional information, click on the following link.
Installed Version 2.1.0.1 for the	Help	Getting started with Fix Central
Platform Windows.	Feedback	Select product Find product
Olish O sufficient	→ Go to Fix Central mobile	Type the product name to access a list of product choices.
Click Continue.		When using the keyboard to navigate the page, use the Tab or down arrow keys to navigate the results list.
The next name is Identify Fixes		Product selector
You do not need to complete this		Tivoli Integrated Portal
Fou do not need to complete this		Installed Version
page. Click Continue.		
		Windows
		Continue
page. Once continue.		Platform Windows 💌

Once you know which Tivoli Integrated Portal is installed at your environment, browse to IBM Fix Central. Select **Tivoli Integrated Portal** at the **Product Selector**, then select the **Installed Version** of Tivoli Integrated Portal that you currently have in your environment. Finally, enter the platform that you are downloading the upgrade files for. In this example, you know that the current Tivoli Integrated Portal in your environment is 2.1.0.1, so you select the product as **Tivoli Integrated Portal** with Version **2.1.0.1** for the Windows platform. Click **Continue**.

	LBA
Obtaining Feature Pack files on the Results	spage
 On the Results page, you must download two files for upgrades of Tivoli Integrated Portal 2.1.0 to 2.2.0.1: The file 2.2.0.1-TIV-TIP-FITSuit-RP0001v3 is the feature pack The file 2.2.0.1-TIV-TIP-Windows32-RP0001 is the refresh pack 	Select fixes The following results match your request. Select the fixes you want to download. To try a different query, go to the <u>Identify fixes</u> page. Continue Clear selections
 Select the check box for each file, then click Continue. The IBM login page opens. Enter valid IBM credentials 	1. refresh pack: <u>2.2.0.1-TIV-TIP-FITSuit-RP0001v3</u> ⇒ 2.2.0.1-TIV-TIP-FITSuit-RP0001v3
The final screen displays the Download Now button	2.2.0.1-TIV-TIP-Windows32-RP0001
 Click the Download Now button to download these two files to your local environment. 	
 Review all the next steps from the Tivoli Integrated Portal 2.2.0.1 Feature Pack Installation and troubleshooting Guide document accessible here: <u>http://www-01.ibm.com/support/docview.wss?uid=swg21617142</u> 	
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On the Results page, select the two main packages: the Feature Pack and the Refresh Pack. Click **Continue**. The page prompts you for your IBM.com credentials, and then the Download Now page opens. Click **Download Now** and select a directory to save the packages, or Download Director will save the packages at the directory that you specified during previous downloads.

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The web GUI installer uses InstallAnywhere, Deployment Engine, and Composite Offering Installer when installing.

The **IBM_Tivoli_Netcool_OMNIbus_Web_GUI_Install-00.log** is the main log that describes the overall installation flow. This file is typically found in your home directory. The common term that is used when referring to this file is **IA** log - for InstallAnywhere. It is important to check the exit code after each installation in this file. For successful installations, you see **exit code: 0**. For unsuccessful installations, you typically see **exit code: -1** in the last line.

You typically need to look at _uninst and logs folders.

	1BM
The four kinds of upgrade logs	
 WebSphere[®] UPDI logs Generally a folder named updilogs at the installed users' home directory contains inforr WebSphere upgrades. 	mation about
 Tivoli Integrated Portal Feature Pack logs Tivoli Integrated Portal 2.2.0.1 feature pack allows you to upgrade your environment from Integrated Portal Version 2.1.0 to Tivoli Integrated Portal 2.2.0.1. The Tivoli Integrated Portal feature pack process requires products to certify compatibility versions before an in-place upgrade is allowed which avoids problems with existing/inst products. You can find the complete list of products that are certified for this exercise at the "IBM" Integrated Portal" community at the developerWorks[®] @ IBM. Logs to user directory as <i>TIPFeaturePackInstaller-00.log</i> 	m Tivoli ty with new alled Tivoli
 Tivoli Integrated Portal Fix Pack logs Fix Pack are the upgrade packages available for Tivoli Integrated Portal Logs to user directory as TIPFPInstaller-00.log 	
 Deployment Engine logs Logs to this location:	
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Generally you need to look at four kinds of logs for upgrade scenarios for IBM Tivoli Netcool/OMNIbus. Information about the WebSphere upgrades is in a folder named **updilogs**. These logs need to be collected and reviewed especially in the case of queries that are related to WebSphere Application Server upgrades. The other two logs are the Tivoli Integrated Portal logs. The second log on this slide is the Tivoli Integrated Portal Feature Pack log, which logs to the user directory as **TIPFeaturePackInstaller-00.log**. In this Tivoli Integrated Portal feature pack log, you find information about existing product's compatibility with the new version of the Tivoli Integrated Portal that is being installed. The third log shown, **TIPFPInstaller-00.log**, logs about the upgrade packages that are installed for Tivoli Integrated Portal. The fourth log type is the Deployment Engine logs. The Deployment Engine logs are essential for troubleshooting upgrade issues.

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Underst	anding the _uninst folder	
• Logs – Conta – There %TIF	ains other logs that various tasks create during installation are many standout and error files available at the HOME%\profiles\TIPProfile\logs folder	
 _uninst _ This _ Scrol c ir ir ir Chec Insta If the _unit _Webⁱ _The r 	directory contains secondary logs that help with debugging detailed failures to the plan directory and you see three different subdirectories: necks stall ventory ks and inventory directories contain logs that are created during pre-installation II directory contains logs that are created during installation and postinstallation product fix packs embed Tivoli Integrated Portal fix packs, you might need both nst folder and the Tivoli Integrated Portal fix pack's _uninst GUI _uninst folder is available at omnibus_webgui_uninst next slides show sample log files after a successful Tivoli Integrated Portal 2.2.0	ns the product's .1 Upgrade
12	Pre-installation checks and log monitoring for the ungrade of Tivoli Integrated Portal version 2.1 to version 2.2 on Windows	© 2014 IRM Corporation

Two folders are valuable for troubleshooting; the **_uninst** folder and the **logs** folder. The common logs folder for Tivoli Integrated Portal is named similarly to **%TIPHOME%\profiles\TIPProfile\logs\server1**. For installation, also see the logs that you find at the **%TIPHOME%\logs** folder. The **_uninst** directory in the folder **%TIPHOME%_uninst** contains secondary logs that help with debugging detailed failures. The **_uninst** folder contains three different subdirectories.

The upgrade has two major steps that it needs to do. First, it does the pre-installation checks and inventory verification. The **checks** and **inventory** directories at the **%TIPHOME%_uninst** folder contain logs and records that are created during pre-installation. The **installation** directory contains logs that are created during installation and postinstallation. Both these steps are automatic and these directories are for reference purposes so that you can better understand the installation or upgrade process.

When Tivoli Integrated Portal is included as part of the product fix pack deliverable, in addition to the Tivoli Integrated Portal **_uninst** folder, you also want to look at the product's **_uninst** folder at the location that is shown on this slide.

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```
Sample log (1 of 2)
%TIPHOME%\_uninst\TIPInstall2201\plan\checks\[INSTALL_Date] where %TIPHOME% is D:\IBM\Tivoli\tipv2\
2014-06-10 16:30:14.337 : Started: Parallel Plan: Operation = INSTALL
2014-06-10 16:30:14.337 : ProcessID: [INSTALL_0610_16.30]
2014-06-10 16:30:14.431 : Started: Machine Plan: MachinePlan_localhost
2014-06-10 16:30:14.431 :
                                           Log File:
  D:\IBM\Tivoli\tipv2\_uninst\TIPInstall2201\plan\checks\MachinePlan_localhost/logs/[INSTALL_0610_16.30]/MachinePlan_localh
  ost.log
2014-06-10 16:30:15.165 : Started: Deployment Step: step_00001_TIPInstall_PreCheck-FP1
2014-06-10 16:30:15.165 :
                                          Machine Plan: MachinePlan_localhost
2014-06-10 16:30:35.304 : Completed: Deployment Step: step_00001_TIPInstall_PreCheck-FP1
2014-06-10 16:30:35.304 : Machine Plan: MachinePlan_localhost
2014-06-10 16:30:35.304 : Completed: Machine Plan: MachinePlan_localhost
2014-06-10 16:30:35.304 : Log File:
D:\IBM\Tivoli\tipv2\_uninst\TIPInstall2201\plan\checks\MachinePlan_localhost/logs/[INSTALL_0610_16.30]/MachinePlan_localh
  ost.log
2014-06-10 16:30:35.304 : Completed: Parallel Plan: Operation = INSTALL
2014-06-10 16:30:35.304 :
                                           ProcessID:
                                                         [INSTALL_0610_16.30]
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                                                                                                                                 © 2014 IBM Corporation
```

This slide shows a sample log in the **Checks** folder in the plan directory. You see that it has three **started** tasks and three **completed** tasks, indicating that all the steps are ready.

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Sample log (2 of 2) %TIPHOME%_uninst\TIPInstall2201\plan\install, where %TIPHOME% is D:\IBM\Tivoli\tipv2\ 2014-06-10 16:45:10.070 : Started: Parallel Plan: Operation = INSTALL 2014-06-10 16:45:10.070 : ProcessID: [INSTALL_0610_16.45] 2014-06-10 16:45:10.070 : 2014-06-10 16:45:10.195 : Started: Machine Plan: MachinePlan localhost 2014-06-10 16:45:10.195 : Log File: D:\IBM\Tivoli\tipv2_uninst\TIPInstall2201\plan\install 2014-06-10 16:45:10.195 : Log File: D:\IBM\Tivoli\tipv2\ \MachinePlan_localhost/logs/[INSTALL_0610_16.45]/MachinePlan_localhost.log 2014-06-10 16:45:11.195 : Started: Deployment Step: step_00001_StopWAS 2014-06-10 16:45:11.195 : Machine Plan: MachinePlan_localhost 2014-06-10 16:46:30.413 : Completed: Deployment Step: step_00001_StopWAS 2014-06-10 16:46:30.413 : Machine Plan: MachinePlan_localhost 2014-06-10 16:51:30.413 : Completed: Deployment Step: step_00008_TIPCorePostConfig Machine Plan: MachinePlan_localhost 2014-06-10 16:51:30.413 : 2014-06-10 16:51:30.413 : Completed: Machine Plan: MachinePlan_localhost 2014-06-10 16:51:30.413 : Log File: D:\IBM\Tivoli\tipv2\uninst\TIPInstall2201\plan\install 2014-06-10 16:51:30.413 : Log File: D:\IBM\Tivoli\tipv2\ \MachinePlan_localhost/logs/[INSTALL_0610_16.45]/MachinePlan_localhost.log 2014-06-10 16:52:28.349 : Completed: Parallel Plan: Operation = INSTALL 2014-06-10 16:52:28.349 : ProcessID: [INSTALL_0610_16.45] 15 Pre-installation checks and log monitoring for the upgrade of Tivoli Integrated Portal version 2.1 to version 2.2 on Windows © 2014 IBM Corporation

On this slide, you see an example log in the **plan/install** directory. The log ends with **Completed: Parallel Plan: Operation = INSTALL** and indicates that all went well with the upgrade.

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Summary
Now that you completed this module, you can perform these tasks:
Ensure pre-installation checks are completed before starting upgrades to Tivoli Integrated Portal 2.2
 Explain to others that you need to first upgrade to Tivoli Integrated Portal 2.2.0.1 for any upgrade from Tivoli Integrated Portal 2.1 to Tivoli Integrated Portal 2.2
 Explain to others that a feature pack must be installed with a release pack for cases when you upgrade Tivoli Integrated Portal 2.1 to Tivoli Integrated Portal 2.2
 Monitor several upgrade logs and tell others their locations and purpose
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This slide shows the summary of the topics that are covered in this training module.

IBM
Some useful IBM websites
 DeveloperWorks Tivoli Integrated Portal Community
https://www.ibm.com/developerworks/mydeveloperworks/groups/service/html/communityview?commu nityUuid=26d4aa47-4fd6-460d-a93b-3ee8945324d6
Tivoli Integrated Portal Read First MustGather
http://www-U1.ibm.com/support/docview.wss?uid=swg21568245
 Netcool/OMNIbus Read First MustGather http://www-01.jbm.com/support/docview.wss?uid=swg21631338
IPM Support Portal Eix Contral
http://www.ibm.com/support/fixcentral/
 Web GUI Reference for Tivoli Integrated Portal 2.1 to Tivoli Integrated Portal 2.2 upgrade <u>http://www-01.ibm.com/support/docview.wss?uid=swg21617142</u>
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Here are some IBM websites with more product information.

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